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(54) Title: NOVEL PROSTATE TUMOR-SPECIFIC PROMOTER

(57) Abstract: This invention provides novel transcriptional regulatory elements from the human TRPM4 (Transient Receptor Potential-Melastatin 4) gene. These promoter and enhancer elements preferentially activate transcription in prostate tumor cells and tissues as compared to other tissues. Methods and compositions are provided to employ TRPM4 promoter elements for prostate tumor-specific expression of therapeutic molecules. Prostate tumor-restricted replicating adenoviral vectors are also provided.



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INTERNATIONAL SEARCH REPORT

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PCT/US03/11805

A. CLASSIFICATION OF SUBJECT MATTER
IPC(7) : C07H 21/04; C12N 1/20, 5/00
US CL : 536/22.1; 435/252.3, 325
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED
Minimum documentation searched (classification system followed by classification symbols)
U.S. : 536/22.1; 435/252.3, 325

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
NONE

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 2004/050674 A2 (SHUSTER et al.) 17 June 2004 (17. 06. 2004), See the Abstract.	1-21
A	WO 2005/009539 A2 (XIE et al.) 3 February 2005 (03. 02. 2005) See the Abstract.	1-21

- ☐ Further documents are listed in the continuation of Box C. ☐ See patent family annex.
- * Special categories of cited documents:
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| "P" document published prior to the international filing date but later than the priority date claimed | |

Date of the actual completion of the international search 30 September 2005 (30.09.2005)	Date of mailing of the international search report 21 NOV 2005
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INTERNATIONAL SEARCH REPORT

PCT/US03/11805

Continuation of B. FIELDS SEARCHED Item 3:
WEST AND STN SEARCHED:
USPATFULL, MEDLINE, CAPLUS, EMBASE, BIOSIS
SEQ ID NOs: 1-4 are searched by STIC.
search terms: transient receptor, promoter, melastatin.